cartridge.

DOCKET: TU999050

WIRELESS SECURITY ACCESS MANAGEMENT

FOR A PORTABLE DATA STORAGE CARTRIDGE

ABSTRACT

A portable security system mounted in a portable data 5 storage\cartridge for managing access by users to the cartridge. A programmable computer processor mounted in the cartridge is powered by \and receives data from and transmits data to a data storage drive via a wireless RF interface, when mounted in the drive. A usen table has a unique user identifier for each 10 authorized user\and lists permitted activities the user is authorized to conduct with respect to the data storage cartridge. Preferably, a private key, public key algorithm is employed. Thus, the user identifier comprises a user symbol and a user decrypting sender public key. A user authentication message from 15 the authorized user is encrypted by a sender private key and a receiver public key, in accordance with a predetermined algorithm, employing the Δ ryptographic algorithm. cryptographic algorithm decrypts the user authentication message employing a receiver private\key and the sender public key, 20 whereby the user authentication message is known to have come Then, the security system algorithm grants access from the user. to the user for the listed activities with respect to the